

### ABSTRACT OF THE DISCLOSURE

Nucleic acid compositions encoding polypeptide products with diglyceride acyltransferase activity, as well as the polypeptide products encoded thereby and methods for producing the same, are provided. The subject polypeptide and nucleic acid compositions find use in a variety of applications, including research, diagnostic, and therapeutic agent screening applications, as well as in treatment therapies and in the production of triacylglycerols.